

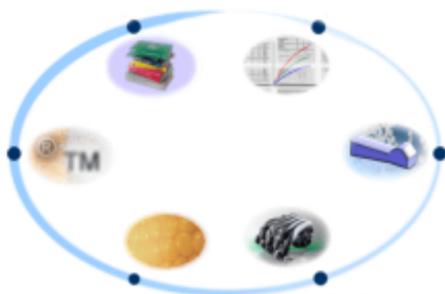
View Datasheet in other language



 E-mail to a friend

 Register now

## Material Data Center



- Complete Set of CAMPUS® Data
- ASTM Data
- Biopolymer Database
- Application Database
- Tradename Database
- Literature Database
- Toolbox

[www.materialdatacenter.com](http://www.materialdatacenter.com)

Material datasheets available free. Online registration at: [www.materialdatacenter.com](http://www.materialdatacenter.com)

Material Data Center is a leading international information system for the plastics industry. Material Data Center offers a comprehensive plastics database, calculation tools, CAE interfaces, a literature database and an application database. For more information about Material Data Center visit [www.materialdatacenter.com](http://www.materialdatacenter.com).

## This is the free Material Data Center Datasheet of AFFINITY™ PL 1880G - PE - The Dow Chemical Company

Material Data Center offers the following functions for **AFFINITY™ PL 1880G**:  
unit conversion, PDF datasheet print, comparison with other plastics

Check here, which other [Affinity](#) datasheets, application examples or technical articles are available in Material Data Center

Use the following short links to get directly to the properties of interest in this datasheet:

[Processing/Physical Characteristics](#) - [Thermal properties](#) - [Optical properties](#) - [Other properties](#) - [Film Properties](#)

Any use of this information falls under the rules of our [disclaimer](#).

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	1	g/10min	ASTM D 1238
Temperature	190	°C	-
Load	2.16	kg	-

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melting Temperature	99	°C	ASTM D 3418
Vicat Temperature	86	°C	ASTM D 1525

Optical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Gloss	141	-	ASTM D 2457
Haze	1.1	%	ASTM D 1003

Other properties	Value	Unit	Test Standard
Density	902	kg/m³	ASTM D 792

Film Properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Strength at Yield, MD	7.24	MPa	ASTM D 882
Tensile Strength at Yield, TD	6.89	MPa	ASTM D 882
Tensile Strength at Break, MD	58.6	MPa	ASTM D 882
Tensile Strength at Break, TD	44.7	MPa	ASTM D 882
Elongation at Break, MD	620	%	ASTM D 882
Elongation at Break, TD	630	%	ASTM D 882
Type of extrusion	blown	-	-
Thickness of specimen	0.051	mm	-

### Characteristics

#### Processing

Blown Film Extrusion, Film Extrusion

#### Delivery form

Pellets

#### Special Characteristics

Transparent

#### Features

Heat Sealable, Low Odor

#### Certifications

Food contact, Food approval 10/2011, Food contact notification (FCN), US Pharmacopeia Class VI Approved, Drug Master File

#### Applications

Packaging

#### Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

### Disclaimer

Copyright Altair Engineering GmbH. Altair Engineering GmbH assumes no liability for the system to be free of errors. The user takes sole responsibility for the use of this data under the exclusion of every liability from Altair Engineering GmbH; this is especially valid for claims of compensation resulting from consequential damages. Altair explicitly points out that any decision about the application of materials must be double checked with the producer of this material. This includes all contents of this system. Copyright laws are applicable for the content of this system.

Material Data Center is provided by M-Base Engineering + Software GmbH. M-Base Engineering + Software GmbH assumes no liability for the system to be free of errors. Any decision about the application of materials must be double checked with the producer of this material.

Additional information about this material, like producer contact address, etc. can be found at [www.materialdatacenter.com](http://www.materialdatacenter.com). For access to this extra information a registration is requested. Free online registration is available.